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Applicants: Oliver P. Peoples, Lara L. Madison, and Gjalt Huisman

Serial No.: 09/364,847

Art Unit: 1652

Filed: July 30, 1999

Examiner: D. Steadman

For: *ENZYMES FOR BIOPOLYMER PRODUCTION*

Assistant Commissioner for Patents
Washington, D.C. 20231

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INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, and Further to the Information Disclosure Statement mailed January 5, 2000, enclosed are ten (10) pages of Form PTO-1449 and copies of each document cited therein. These documents were all listed in the Information Disclosure Statement mailed January 5, 2000, but the Examiner has requested additional copies of the references cited.

It is believed that no fee is required with this submission. However, should a fee be required, the Commissioner is hereby authorized to charge any fees to Deposit Order Account No. 50-1667.

U.S. Patents

<u>Number</u>	<u>Issue Date</u>	<u>Patentee</u>	<u>Class/Subclass</u>
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U.S.S.N.: 09/364,847
 Filed: July 30, 1999
 INFORMATION DISCLOSURE STATEMENT

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U.S.S.N.: 09/364,847
Filed: July 30, 1999
INFORMATION DISCLOSURE STATEMENT

Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicants invite the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicants are of the opinion that their claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,



Patrea L. Pabst
Reg. No. 31,284

Dated: June 25, 2001

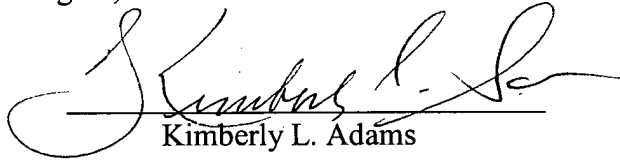
HOLLAND & KNIGHT LLP
One Atlantic Center
1201 West Peachtree Street, N.E.
Suite 2000
Atlanta, Georgia 30309-3400
404-817-8500
FAX 404-817-0470
www.hklaw.com

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 (use as many sheets as necessary)		Application Number	09/364,847
		Filing Date	July 30, 1999
		First Named Inventor	Oliver P. Peoples
		Group Art Unit	1649
		Examiner Name	
Sheet 1 of 10	Attorney Docket Number	MBX 030	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		5,004,863		Umbeck	04-02-1991	
		5,015,580		Christou, et al.	05-14-1991	
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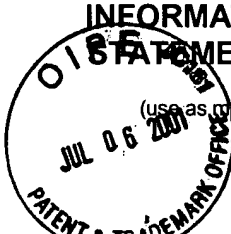
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Substitute for form 1449A/PTO		Complete if Known	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) 		Filing Date	July 30, 1999
		First Named Inventor	Oliver P. Peoples
		Group Art Unit	1649
		Examiner Name	
Sheet	10	Attorney Docket Number	MBX 030

OTHER ART – NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	1	BÜLOW & MOSBACH, "Multienzyme systems obtained by gene fusion," <i>Trends Biotechnol.</i> 9(7):226-31 (1991).	
	2	BÜLOW, "Characterization of an artificial bifunctional enzyme, β -galactosidase/galactokinase, prepared by gene fusion," <i>Eur. J. Biochem.</i> 163(3):443-48 (1987).	
	3	BÜLOW, "Preparation of artificial bifunctional enzymes by gene fusion," <i>Biochem. Soc. Symp.</i> 57:123-33 (1990).	
	4	CARLSSON, et al., "Engineering of lactose metabolism in <i>E. coli</i> by introducing β -galactosidase/galactokinase fusion enzymes," <i>Biotech. Lett.</i> 14:439-44 (1992).	
	5	CEVALLOS, et al., "Genetic and physiological characterization of a <i>Rhizobium etli</i> mutant strain unable to synthesize poly- β -hydroxybutyrate," <i>J. Bacteriol.</i> 178(6):1646-54 (1996).	
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Substitute for form 1449A/PTO		Complete if Known	
		Application Number	09/364,847
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	July 30, 1999
		First Named Inventor	Oliver P. Peoples
		Group Art Unit	1649
		Examiner Name	
		Attorney Docket Number	MBX 030
Sheet	5	10	

OTHER ART – NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	1	FUKUI & DOI, "Cloning and analysis of the poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) biosynthesis genes of <i>Aeromonas caviae</i> ," <i>J. Bacteriol.</i> 179(15):4821-30 (1997).	
	2	FUKUI, et al., "Expression and characterization of (R)-specific enoyl coenzyme A hydratase involved in polyhydroxyalkanoate biosynthesis by <i>Aeromonas caviae</i> ," <i>J. Bacteriol.</i> 180(3):667-73 (1998).	
	3	GASSER & FRALEY, "Genetically Engineering Plants for Crop Improvement," <i>Science</i> 244:1293-99 (1989).	
	4	HAUSER, et al., Translational regulation of chloroplast genes. Proteins binding to the 5'-untranslated regions of chloroplast mRNAs in <i>Chlamydomonas reinhardtii</i> ," <i>J. Biol. Chem.</i> 271(3):1486-97 (1996).	
	5	HUANG, "Oil bodies and oleosins in seeds," <i>Annu. Rev. Plant Physiol. Plant Mol. Biol.</i> 43:177-200 (1992).	
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	8	HUSTEDE, et al., "Cloning of poly(3-hydroxybutyric acid) synthase genes of <i>Rhodobacter sphaeroides</i> and <i>Rhodospirillum rubrum</i> and heterologous expression in <i>Alcaligenes eutrophus</i> ," <i>FEMS Microbiol. Lett.</i> 93:285-90 (1992).	
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	10	JEFFERSON, et al., "GUS fusions: β -glucuronidase as a sensitive and versatile gene fusion marker in higher plants," <i>EMBO J.</i> 6(13):3901-07 (1987).	

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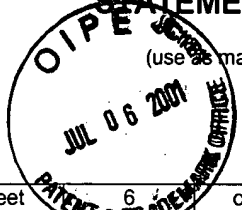
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		KANEKO, et al., "Sequence analysis of the genome of the unicellular cyanobacterium <i>Synechocystis</i> sp. strain PCC6803. II. Sequence determination of the entire genome and assignment of potential protein-coding regions," <i>DNA Res.</i> 3(3):109-36 (1996).	
		KYOZUKA, et al., "Anaerobic induction and tissue-specific expression of maize <i>Adh1</i> promoter in transgenic rice plants and their progeny," <i>Mol. Gen. Genet.</i> 228(1-2):40-48 (1991).	
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		LJUNGCRANTZ, et al., "Construction and characterization of a recombinant tripartite enzyme, galactose dehydrogenase/ β -galactosidase/galactokinase," <i>FEBS Lett.</i> 275(1-2):91-94 (1990).	
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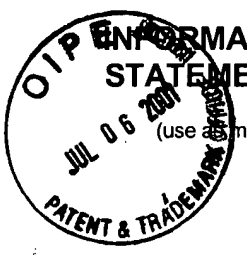
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		First Named Inventor	Oliver P. Peoples		
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		Examiner Name			
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		MOLONEY, et al., "High efficiency transformation of <i>Brassica napus</i> using <i>Agrobacterium</i> vectors," <i>Plant Cell Reports</i> 8:238-42 (1989).	
		NISHIMURA, et al., "Purification and properties of β -ketothiolase from <i>Zoogloea ramigera</i> ," <i>Arch. Microbiol.</i> 116(1):21-27 (1978).	
		ODELL, et al., "Identification of DNA sequences required for activity of the cauliflower mosaic virus 35S promoter," <i>Nature</i> 313(6005):810-12 (1985).	
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		PANG, et al., "An improved green fluorescent protein gene as a vital marker in plants," <i>Plant Physiol.</i> 112:893-900 (1996).	
		PEOPLES & SINSKEY, "Fine structural analysis of the <i>Zoogloea ramigera</i> <i>phbA-phbB</i> locus encoding β -ketothiolase and acetoacetyl-CoA reductase: nucleotide sequence of <i>phbB</i> ," <i>Molecular Microbiol.</i> 3(3):349-57 (1989).	
		PEOPLES & SINSKEY, "Poly- β -hydroxybutyrate (PHB) Biosynthesis in <i>Alcaligenes eutrophus</i> H16," <i>J. Biol. Chem.</i> 264(26):15298-303 (1989).	
		PEOPLES, et al. "Biosynthetic Thiolase from <i>Zoogloea ramigera</i> ," <i>J. Biol. Chem.</i> 262(1):97-102 (1987).	
		PIEPER & STEINBUCHER, "Identification, cloning and sequence analysis of the poly(3-hydroxyalkanoic acid) synthase gene of the gram-positive bacterium <i>Rhodococcus ruber</i> ," <i>FEMS Microbiol. Lett.</i> 75(1):73-79 (1992).	
		PLANT, et al., "Regulation of an <i>Arabidopsis</i> oleosin gene promoter in transgenic <i>Brassica napus</i> ," <i>Plant Mol. Biol.</i> 25(2):193-205 (1994).	

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		POIRIER, et al., "Polyhydroxybutyrate, a Biodegradable Thermoplastic, Produced in Transgenic Plants," <i>Science</i> 256:520-23 (1992).	
		POTRYKUS & SPANGENBERG, <i>Gene Transfer to Plants</i> , Springer-Verlag:Berlin Heidelberg New York, 1995.	
		ROWLEY & HERMAN, "The upstream domain of soybean oleosin genes contains regulatory elements similar to those of legume storage proteins," <i>Biochim. Biophys. Acta.</i> 1345(1):1-4 (1997).	
		SAITO, et al. "An NADP-linked acetoacetyl CoA reductase from <i>Zoogloea ramigera</i> ," <i>Arch. Microbiol.</i> 114(3):211-17 (1977).	
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		SCHEMBRI, et al., "Identification of a 13-kDa protein associated with the polyhydroxyalkanoic acid granules from <i>Acinetobacter</i> spp.," <i>FEMS Microbiol. Lett.</i> 133(3):277-83 (1995).	
		SCHEMBRI, et al., "Phosphate concentration regulates transcription of the <i>Acinetobacter</i> polyhydroxyalkanoic acid biosynthetic genes," <i>J. Bacteriol.</i> 177(15):4501-07 (1995).	
		SLATER, et al., "Multiple beta-ketothiolases mediate poly(beta-hydroxyalkanoate) copolymer synthesis in <i>Ralstonia eutropha</i> ," <i>J. Bacteriol.</i> 180(8):1979-87 (1998).	
		SLIGHTOM, et al., "Complete nucleotide sequence of a French bean storage protein gene: Phaseolin," <i>Proc. Natl. Acad. Sci. USA</i> 80:1897-901 (1983).	
		STEINBÜCHEL & VALENTIN, "Diversity of bacterial polyhydroxyalkanoic acids," <i>FEMS Microbiol. Lett.</i> 128:219-28 (1995).	

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	•	STEINBUCHER, et al., "Considerations on the structure and biochemistry of bacterial polyhydroxyalkanoic acid inclusions," <i>Can. J. Microbiol.</i> 41 Suppl 1:94-105 (1995).	
	•	STEMMER, "DNA shuffling by random fragmentation and reassembly: <i>in vitro</i> recombination for molecular evolution," <i>Proc. Natl. Acad. Sci. USA</i> 91(22):10747-51 (1994).	
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	•	SVAB, et al., "Stable transformation of plastids in higher plants," <i>Proc. Natl. Acad. Sci. USA</i> 87:8526-30 (1990).	
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	•	TOMBOLINI, et al., "Poly-β-hydroxybutyrate (PHB) biosynthetic genes in <i>Rhizobium meliloti</i> 41," <i>Microbiology</i> . 141 (Pt 10):2553-59 (1995).	
	•	UEDA, et al., "Molecular analysis of the poly(3-hydroxyalkanoate) synthase gene from a methylotrophic bacterium, <i>Paracoccus denitrificans</i> ," <i>J. Bacteriol.</i> 178(3):774-79 (1996).	
	•	UMEDA, et al., "Cloning and sequence analysis of the poly (3-hydroxyalkanoic acid)-synthesis genes of <i>Pseudomonas acidophila</i> ," <i>Appl. Biochem. Biotechnol.</i> 70-72:341-52 (1998).	
	•	VALENTIN, et al., "Cloning and characterization of the <i>Methylobacterium extorquens</i> polyhydroxyalkanoic-acid-synthase structural gene," <i>Appl. Microbiol. Biotechnol.</i> 39(3):309-17 (1993).	
	•	WIECZOREK, et al., "Analysis of a 24-kilodalton protein associated with the polyhydroxyalkanoic acid granules in <i>Alcaligenes eutrophus</i> ," <i>J. Bacteriol.</i> 177(9):2425-35 (1995).	

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		WILLIAMS & PEOPLES, "Biodegradable plastics from plants," <i>CHEMTECH</i> 26:38-44 (1996).	
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